Protocol Analyzer For Bluetooth

Tektronix introduced a protocol analyzer for Bluetooth wireless technology development applications. The Tektronix BPA100 Bluetooth Protocol Analyzer combines the protocol analyzer recently acquired from Digianswer with enhanced features for hardware and software integration and design.
The Tektronix BPA100 Protocol Analyzer incorporates Bluetooth SIG qualified radio, baseband and host stack technology developed and marketed by Digianswer. This new instrument adds capabilities for hardware/software integration and design debug, including packet data error generation, data decryption, real time protocol decoding and display, and sophisticated triggering.
The Tektronix BPA100 Protocol Analyzer can both join or monitor a piconet. Participating in the piconet offers design engineers a significant advantage: In the &quotpiconet mode&quot the BPA100 protocol analyzer can generate traffic or inject intentional errors into the piconet to test other connected devices' ability to stay reliably connected under difficult or stressed conditions. In the &quotindependent mode,&quot the BPA100 captures and analyzes data transfers non-intrusively.
The instrument captures all baseband packets transmitted within a piconet and displays packet payload, status information such as access errors, estimated clock and hop frequency. In addition, the data can be displayed at higher protocol levels such as LMP, L2CAP, RFCOMM, and SDP. With selective filtering and advanced triggering, only data of interest may be logged, simplifying the identification of errors. In free run display mode, the instrument display updates continuously as new packets are received, allowing the user to observe changes and track messaging in higher protocols. Connection between the protocol analyzer hardware and the monitoring software on the host computer is via USB and data storage is only limited by the size of the user's disk drive.

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